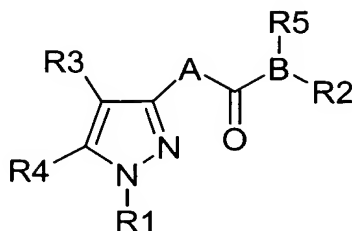


**What Is Claimed Is:**

1. A compound of formula I below, and physiologically acceptable salts thereof, comprising:



wherein, A comprises a direct bond, O or  $-(CH_2)_lN(R_6)-$ ,

R6 comprises hydrogen or a C1 to C6 alkyl, and

l is an integer from 0 to about 1;

B comprises N or O;

R1 comprises  $-(CH_2)_n-Z$ ,

n is an integer from 0 to about 7,

Z comprises a carbocyclic ring having about 4 to about 7 ring members, a heterocyclic ring having about 4 to about 7 ring members, an aromatic ring having about 5 to about 7 ring members, a heteroaromatic ring having about 5 to about 7 ring members, a bicyclic ring, a heterobicyclic ring, a tricyclic ring, a heterotricyclic ring, a polycyclic ring, a heteropolycyclic ring; or any above group substituted on at least one available ring atom by an alkyl group; or any above group substituted on at least one available ring nitrogen atom by a benzyl group, a substituted benzyl group, an alkoxybenzyl group, a substituted alkoxybenzyl group, a benzhydryl group or a substituted benzhydryl group; and wherein the connecting point between the  $-(CH_2)_n-$  group and the Z group can be any available ring carbon atom or any available ring nitrogen atom; or

R1 comprises  $-(CH_2)_n-Z$ ,

n is an integer from 0 to about 7,

Z comprises a 5 member unsaturated ring having 0 to 4 independently selected heteroatoms as ring members, a substituted 5 member unsaturated ring having 0 to 4 independently selected heteroatoms as ring members, a 6 member aromatic ring having 0 to 5 independently selected heteroatoms as ring members or a substituted 6 member aromatic ring having 0 to 5 independently selected heteroatoms; and wherein the connecting point between the  $-(CH_2)_n-$  group and the Z group can be any available ring carbon atom or any available ring nitrogen atom; or

R1 comprises  $-(CH_2)_n-Z$ ,

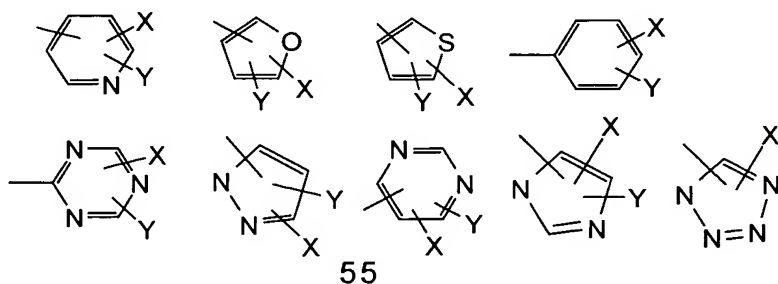
n is an integer from 0 to about 7,

Z comprises 1-, 2- or 3-pyrrolidinyl, 1-, 2-, 3- or 4-piperidinyl, 2-, 3- or 4-morpholinyl, 2-, 3- or 4-thiomorpholinyl, 1-, 2- or 3-azetidiny, 1- or 2-piperazinyl, 2- or 3-tetrahydrofuranyl; or any above group substituted on at least one available ring atom by an alkyl group; or any above group substituted on at least one available ring nitrogen atom by a benzyl group, a substituted benzyl group, an alkoxybenzyl group, a substituted alkoxybenzyl group, a benzhydryl group or a substituted benzhydryl group; and wherein the connecting point between the  $-(CH_2)_n-$  group and the Z group can be any available ring carbon atom or any available ring nitrogen atom; or

R1 comprises  $-(CH_2)_n-Z$ ,

n is an integer from 0 to about 7,

Z comprises



wherein X and Y each independently comprise H, halogen, N<sub>3</sub>, NCS, CN, NO<sub>2</sub>, NX<sub>1</sub>X<sub>2</sub>, OX<sub>3</sub>, OAc, O-acyl, O-aroyl, NH-acyl, NH-aroyl, CHO, CF<sub>3</sub>, COOX<sub>3</sub>, SO<sub>3</sub>H, SO<sub>2</sub>NX<sub>1</sub>X<sub>2</sub>, CONX<sub>1</sub>X<sub>2</sub>, alkoxy, alkylmercapto, alkylamino, di-alkylamino, alkylsulfinyl, alkylsulfonyl or (when Z comprises a structure having two adjacent carbon atoms methylene dioxy,

X<sub>1</sub> and X<sub>2</sub> each independently comprise H or alkyl, or

X<sub>1</sub> and X<sub>2</sub> together comprise part of a heterocyclic ring having about 4 to about 7 ring members and optionally one additional heteroatom selected from O, N or S, or

X<sub>1</sub> and X<sub>2</sub> together comprise part of an imide ring having about 5 to about 6 members,

X<sub>3</sub> comprises H, alkyl, hydroxyloweralkyl or alkyl-NX<sub>1</sub>X<sub>2</sub>,

X<sub>4</sub> comprises H or alkyl; or

R1 comprises a carbocyclic ring having 6 ring atoms fused to a heterocyclic ring having from 5 to 7 ring atoms, a carbocyclic ring having 6 ring atoms fused to a heteroaromatic ring having from 5 to 7 ring atoms, a heterocyclic ring having 6 ring atoms fused to a heterocyclic ring having from 5 to 7 ring atoms, an heterocyclic ring having 6 ring atoms fused to a heteroaromatic ring having from 5 to 7 ring atoms, an aromatic ring having 6 ring atoms fused to a heterocyclic ring having from 5 to 7 ring atoms, an aromatic ring having 6 ring atoms fused to a heteroaromatic ring having from 5 to 7 ring atoms, a heteroaromatic ring having 6 ring atoms fused to a heterocyclic ring having from 5 to 7 ring atoms or a heteroaromatic ring having 6 ring atoms fused to a heteroaromatic ring having from 5 to 7 ring atoms; or

R2 comprises a carbocyclic ring having about 4 to about 7 members, a heterocyclic ring having about 4 to about 7 members, an aromatic ring having about 5 to about 7 ring members, a heteroaromatic ring having about 5 to about 7

members, a bicyclic ring, a heterobicyclic ring, a tricyclic ring, a heterotricyclic ring, a polycyclic ring or a heteropolycyclic ring; or



wherein G comprises CH or N

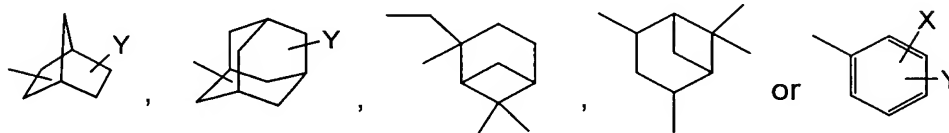
L and J each independently comprise (CH<sub>2</sub>)<sub>n</sub>, O, NH or S,

n is an integer from 0 to about 7; or



wherein G, L and J each independently comprise CH or N; or

R2 comprises



wherein X and Y each independently comprise H, halogen, N<sub>3</sub>, NCS, Ph (phenyl), CN, NO<sub>2</sub>, NX<sub>1</sub>X<sub>2</sub>, OX<sub>3</sub>, OAc, O-acyl, O-aryl, NH-acyl, NH-aryl, CHO, CF<sub>3</sub>, COOX<sub>3</sub>, SO<sub>3</sub>H, SO<sub>2</sub>NX<sub>1</sub>X<sub>2</sub>, CONX<sub>1</sub>X<sub>2</sub>, alkyl, alcohol, alkoxy, alkylmercapto, alkylamino, di-alkylamino, alkylsulfinyl or alkylsulfonyl,

X<sub>1</sub> and X<sub>2</sub> each independently comprise H or alkyl, or

X<sub>1</sub> and X<sub>2</sub> together comprise part of a heterocyclic ring having about 4 to about 7 ring members and optionally a second heteroatom selected from O, N or S, or

X<sub>1</sub> and X<sub>2</sub> together comprise part of an imide ring having about 5 to about 6 members,

X<sub>3</sub> comprises H, alkyl, hydroxyloweralkyl or alkyl-NX<sub>1</sub>X<sub>2</sub>; or

R2 comprises a carbocyclic ring having 6 ring atoms fused to a heterocyclic ring having from 5 to 7 ring atoms, a carbocyclic ring having 6 ring atoms fused to a heteroaromatic ring having from 5 to 7 ring atoms, a heterocyclic ring having 6 ring atoms fused to a heterocyclic ring having from 5 to 7 ring atoms, an heterocyclic ring having 6 ring atoms fused to a heteroaromatic ring having from 5 to 7 ring atoms, an aromatic ring having 6 ring atoms fused to a heterocyclic ring having from 5 to 7 ring atoms, an aromatic ring having 6 ring atoms fused to a heteroaromatic ring having from 5 to 7 ring atoms, a heteroaromatic ring having 6 ring atoms fused to a heterocyclic ring having from 5 to 7 ring atoms or a heteroaromatic ring having 6 ring atoms fused to a heteroaromatic ring having from 5 to 7 ring atoms;

R3 comprises H, halogen, N<sub>3</sub>, NCS, Ph, CN, NO<sub>2</sub>, NX<sub>1</sub>X<sub>2</sub>, OX<sub>3</sub>, OAc, O-acyl, O-aroyl, O(CH<sub>2</sub>)<sub>d</sub>OH, O(CH<sub>2</sub>)<sub>d</sub>NX<sub>1</sub>X<sub>2</sub>, NH-acyl, NH-aroyl, CHO, CF<sub>3</sub>, COOX<sub>3</sub>, SO<sub>3</sub>H, SO<sub>2</sub>NX<sub>1</sub>X<sub>2</sub>, CONX<sub>1</sub>X<sub>2</sub>, alkyl, alcohol, alkoxy, alkylmercapto, alkylamino or di-alkylamino, alkylsulfinyl or alkylsulfonyl,

X<sub>1</sub> and X<sub>2</sub> each independently comprise H or alkyl, or

X<sub>1</sub> and X<sub>2</sub> together comprise part of a heterocyclic ring having about 4 to about 7 ring members and optionally a second heteroatom selected from O, N or S, or

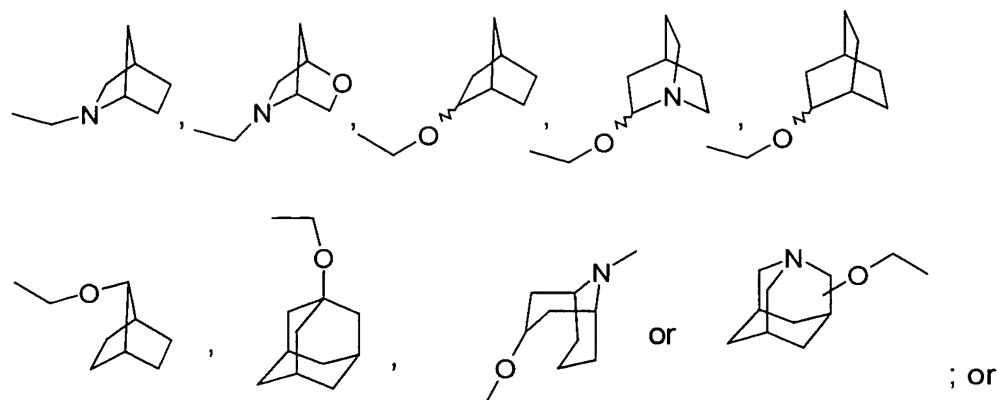
X<sub>1</sub> and X<sub>2</sub> together comprise part of an imide ring having about 5 to about 6 members,

X<sub>3</sub> comprises H, alkyl, hydroxyloweralkyl or alkyl-NX<sub>1</sub>X<sub>2</sub>,

d is an integer from 0 to about 6; or

R3 comprises a carbocyclic ring having about 4 to about 7 ring members, a heterocyclic ring having about 4 to about 7 ring members, an aromatic ring having about 5 to about 7 ring members, a heteroaromatic ring having about 5 to about 7 ring members, a bicyclic ring, a heterobicyclic ring, a tricyclic ring, a heterotricyclic ring, a polycyclic ring or a heteropolycyclic ring; or

R3 comprises



R3 comprises  $-\text{CH}_2-\text{Z}_1$

Z comprises H, halogen, N<sub>3</sub>, NCS, Ph, CN, NO<sub>2</sub>, NX<sub>1</sub>X<sub>2</sub>, OX<sub>3</sub>, OAc, O-acyl, O-aroyl, O(CH<sub>2</sub>)<sub>d</sub>OH, O(CH<sub>2</sub>)<sub>d</sub>NX<sub>1</sub>X<sub>2</sub>, NH-acyl, NH-aroyl, CHO, CF<sub>3</sub>, COOX<sub>3</sub>, SO<sub>3</sub>H, SO<sub>2</sub>NX<sub>1</sub>X<sub>2</sub>, CONX<sub>1</sub>X<sub>2</sub>, alkyl, alcohol, alkoxy, alkylmercapto, alkylamino, di-alkylamino, alkylsulfinyl or alkylsulfonyl,

X<sub>1</sub> and X<sub>2</sub> each independently comprise H or alkyl, or

X<sub>1</sub> and X<sub>2</sub> together comprise part of a heterocyclic ring having about 4 to about 7 ring members and optionally a second heteroatom selected from O, N or S, or

X<sub>1</sub> and X<sub>2</sub> together comprise part of an imide ring having about 5 to about 6 members.

X<sub>3</sub> comprises H, alkyl, hydroxyloweralkyl or alkyl-NX<sub>1</sub>X<sub>2</sub>,

d is an integer from 0 to about 6; or

R3 comprises  $-\text{CH}_2\text{OH}$  or  $-\text{CH}_2\text{Oalkyl}$ ; or

R3 comprises  $-\text{CH}_2-\text{Z}$ ,

Z comprises a carbocyclic ring having about 4 to about 7 ring members, a heterocyclic ring having about 4 to about 7 ring members, an aromatic ring having about 5 to about 7 ring members, a heteroaromatic ring having about 5 to about 7 ring members, a bicyclic ring, a heterobicyclic ring, a tricyclic ring or a heterotricyclic ring; or any above

group substituted on at least one available ring atom by an alkyl group; or any above group substituted on at least one available ring nitrogen atom by a benzyl group, a substituted benzyl group, an alkoxybenzyl group, a substituted alkoxybenzyl group, a benzhydryl group or a substituted benzhydryl group; and wherein the connecting point between the  $-(CH_2)_n$ -group and the Z group can be any available ring carbon atom or any available ring nitrogen atom; or

R3 comprises  $-CH_2-Z$ ,

Z comprises 1-, 2- or 3-pyrrolidinyl, 1-, 2-, 3- or 4-piperidinyl, 2-, 3- or 4-morpholinyl, 2-, 3- or 4-thiomorpholinyl, 1-, 2- or 3-azetidiny, 1- or 2-piperazinyl, 2- or 3-tetrahydrofuranyl; or any above group substituted on at least one available ring nitrogen atom by a benzyl group, a substituted benzyl group, an alkoxybenzyl group, a substituted alkoxybenzyl group, a benzhydryl group or a substituted benzhydryl group; and wherein the connecting point between the  $-(CH_2)_n$ - group and the Z group can be any available ring carbon atom or any available ring nitrogen atom; or

R3 comprises  $-CH_2-Q-(CH_2)_n-Z$ ,

Q comprises N, O, S,  $CH_3$ ,  $SO_2$  or  $OSO_2$ ,

n is an integer from 0 to about 7,

Z comprises H, halogen,  $N_3$ , NCS, Ph, CN,  $NO_2$ ,  $NX_1X_2$ ,  $OX_3$ , OAc, O-acyl, O-aroyl, NH-acyl, NH-aroyl,  $O(CH_2)_dOH$ ,  $O(CH_2)_dNX_1X_2$ , CHO,  $CF_3$ ,  $COOX_3$ ,  $SO_3H$ ,  $SO_2NX_1X_2$ ,  $CONX_1X_2$ , alkyl, alcohol, alkoxy, alkylmercapto, alkylamino, di-alkylamino, alkylsulfinyl or alkylsulfonyl,

$X_1$  and  $X_2$  each independently comprise H or alkyl, or

$X_1$  and  $X_2$  together comprise part of a heterocyclic ring having about 4 to about 7 ring members and optionally a second heteroatom selected from O, N or S, or

$X_1$  and  $X_2$  together comprise part of an imide ring having about 5 to about 6 members,

$X_3$  comprises H, alkyl, hydroxyloweralkyl, or alkyl- $NX_1X_2$ ,

d is an integer from 0 to about 6; or

R3 comprises  $-\text{CH}_2-\text{Q}-(\text{CH}_2)_n-\text{Z}$ ,

Q comprises N, O, S,  $\text{CH}_3$ ,  $\text{SO}_2$  or  $\text{OSO}_2$ ,

n is an integer from 0 to about 7,

Z comprises a carbocyclic ring having about 4 to about 7 ring members, a heterocyclic ring having about 4 to about 7 ring members, an aromatic ring having about 5 to about 7 ring members, a heteroaromatic ring having about 5 to about 7 ring members; or any above group substituted on at least one available ring atom by an alkyl group; or any above group substituted on at least one available ring nitrogen atom by a benzyl group, a substituted benzyl group, an alkoxybenzyl group, a substituted alkoxybenzyl group, a benzhydryl group or a substituted benzhydryl group; and wherein the connecting point between the  $-(\text{CH}_2)_n$ - group and the Z group can be any available ring carbon atom or any available ring nitrogen atom; or

R3 comprises  $-\text{CH}_2-\text{Q}-(\text{CH}_2)_n-\text{Z}$ ,

Q comprises N, O, S,  $\text{CH}_3$ ,  $\text{SO}_2$  or  $\text{OSO}_2$ ,

n is an integer from 0 to about 7,

Z comprises 1-, 2- or 3-pyrrolidinyl, 1-, 2-, 3- or 4-piperidinyl, 2-, 3- or 4-morpholinyl, 2-, 3- or 4-thiomorpholinyl, 1-, 2- or 3-azetidyl, 1- or 2-piperazinyl, 2- or 3-tetrahydrofuranyl; or any above group substituted on at least one available ring atom by an alkyl group; or any above group substituted on at least one available ring nitrogen atom by a benzyl group, a substituted benzyl group, an alkoxybenzyl group, a substituted alkoxybenzyl group, a benzhydryl group or a substituted benzhydryl group; and wherein the connecting point between the  $-(\text{CH}_2)_n$ - group and the Z group can be any available ring carbon atom or any available ring nitrogen atom; or

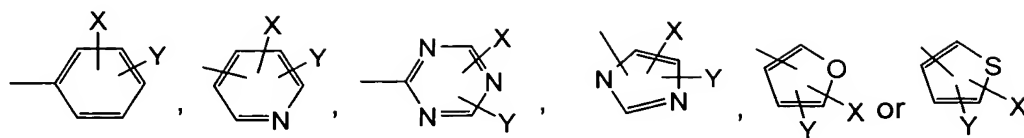
R3 comprises  $-\text{CH}_2-\text{Q}-(\text{CH}_2)_n-\text{Z}$ ,

Q comprises N, O, S,  $\text{CH}_3$ ,  $\text{SO}_2$  or  $\text{OSO}_2$ ,

n is an integer from 0 to about 7,



Z comprises



wherein X and Y each independently comprise H, halogen, N<sub>3</sub>, NCS, CN, NO<sub>2</sub>, NX<sub>1</sub>X<sub>2</sub>, OX<sub>3</sub>, OAc, O-acyl, O-aroyl, NH-acyl, NH-aroyl, CHO, CF<sub>3</sub>, alcohol, COOX<sub>3</sub>, SO<sub>3</sub>H, SO<sub>2</sub>NX<sub>1</sub>X<sub>2</sub>, CONX<sub>1</sub>X<sub>2</sub>, alkoxy, alkylmercapto, alkylamino, di-alkylamino, alkylsulfinyl, alkylsulfonyl or (when Z comprises a structure having two adjacent carbon atoms) methylene dioxy,

X<sub>1</sub> and X<sub>2</sub> each independently comprise H or alkyl, or

X<sub>1</sub> and X<sub>2</sub> together comprise part of a heterocyclic ring having about 4 to about 7 ring members and optionally a second heteroatom selected from O, N or S, or

X<sub>1</sub> and X<sub>2</sub> together comprise part of an imide ring having about 5 to about 6 members,

X<sub>3</sub> comprises H, alkyl, hydroxyloweralkyl or alkyl-NX<sub>1</sub>X<sub>2</sub>;

R<sub>4</sub> comprises -(CH<sub>2</sub>)<sub>n</sub>-Z,

n comprises an integer from 0 to about 7,

Z comprises H, halogen, N<sub>3</sub>, NCS, CN, NO<sub>2</sub>, NX<sub>1</sub>X<sub>2</sub>, OX<sub>3</sub>, OAc, O-acyl, O-aroyl, NH-acyl, NH-aroyl, O(CH<sub>2</sub>)<sub>d</sub>OH, O(CH<sub>2</sub>)<sub>d</sub>NX<sub>1</sub>X<sub>2</sub>, CHO, CF<sub>3</sub>, COOX<sub>3</sub>, SO<sub>3</sub>H, SO<sub>2</sub>NX<sub>1</sub>X<sub>2</sub>, CONX<sub>1</sub>X<sub>2</sub>, alkoxy, alkylmercapto, alkylamino, di-alkylamino alkylsulfinyl or alkylsulfonyl,

X<sub>1</sub> and X<sub>2</sub> each independently comprise H or alkyl, or

X<sub>1</sub> and X<sub>2</sub> together comprise part of a heterocyclic ring having about 4 to about 7 ring members and optionally a second heteroatom selected from O, N or S, or

X<sub>1</sub> and X<sub>2</sub> together comprise part of an imide ring having about 5 to about 6 members,

$X_3$  comprises H, alkyl, hydroxyloweralkyl or alkyl- $NX_1X_2$ ,  
d is an integer from 0 to about 6; or

R4 comprises  $-(CH_2)_n-Z$ ,

n comprises an integer from 0 to about 7,

Z comprises a carbocyclic ring having about 4 to about 7 ring members, a heterocyclic ring having about 4 to about 7 ring members, an aromatic ring having about 5 to about 7 ring members, a heteroaromatic ring having about 5 to about 7 ring members, a bicyclic ring, a heterobicyclic ring, a polycyclic ring, a heteropolycyclic ring; or any above group substituted on at least one available ring atom by an alkyl group; or any above group substituted on at least one available ring nitrogen atom by a benzyl group, a substituted benzyl group, an alkoxybenzyl group, a substituted alkoxybenzyl group, a benzhydryl group or a substituted benzhydryl group; and wherein the connecting point between the  $-(CH_2)_n$ -group and the Z group can be any available ring carbon atom or any available ring nitrogen atom; or

R4 comprises  $-(CH_2)_n-Z$ ,

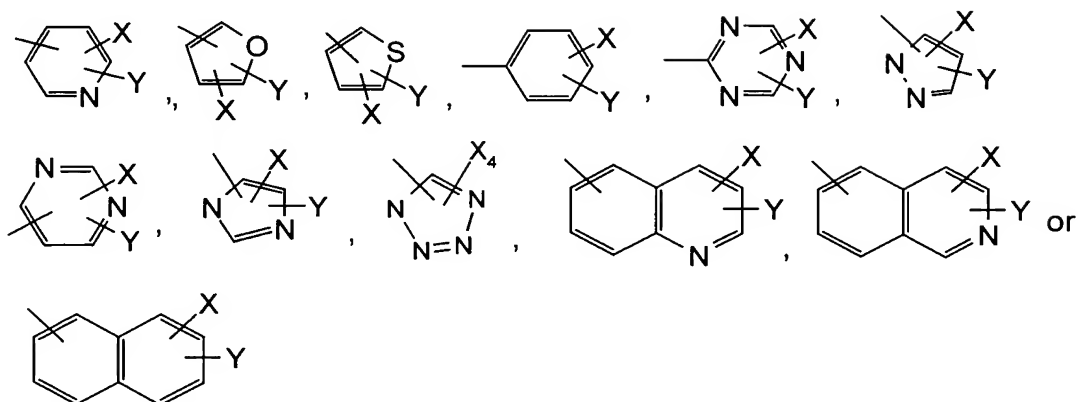
n comprises an integer from 0 to about 7,

Z comprises 1-, 2- or 3-pyrrolidinyl, 1-, 2-, 3- or 4-piperidinyl, 2-, 3- or 4-morpholinyl, 2-, 3- or 4-thiomorpholinyl, 1-, 2- or 3-azetidiny, 1- or 2-piperazinyl, 2- or 3-tetrahydrofuranyl; or any above group substituted on at least one available ring atom by an alkyl group; or any above group substituted on at least one available ring nitrogen atom by a benzyl group, a substituted benzyl group, an alkoxybenzyl group, a substituted alkoxybenzyl group, a benzhydryl group or a substituted benzhydryl group; and wherein the connecting point between the  $-(CH_2)_n$ -group and the Z group can be any available ring carbon atom or any available ring nitrogen atom; or

R4 comprises  $-(CH_2)_n-Z$ ,

n comprises an integer from 0 to about 7,

Z comprises



wherein X and Y each independently comprise H, halogen, N<sub>3</sub>, NCS, CN, NO<sub>2</sub>, NX<sub>1</sub>X<sub>2</sub>, OX<sub>3</sub>, OAc, O-acyl, O-aroyl, NH-acyl, NH-aroyl, alcohol, CHO, CF<sub>3</sub>, COOX<sub>3</sub>, SO<sub>3</sub>H, SO<sub>2</sub>NX<sub>1</sub>X<sub>2</sub>, CONX<sub>1</sub>X<sub>2</sub>, alkoxy, alkylmercapto, alkylamino, di-alkylamino, alkylsulfinyl, alkylsulfonyl or (when Z comprises a structure having two adjacent carbon atoms) methylene dioxy,

X<sub>1</sub> and X<sub>2</sub> each independently comprise H or alkyl, or

X<sub>1</sub> and X<sub>2</sub> together comprise part of a heterocyclic ring having about 4 to about 7 ring members and optionally a second heteroatom selected from O, N or S, or

X<sub>1</sub> and X<sub>2</sub> together comprise part of an imide ring having about 5 to about 6 members,

X<sub>3</sub> comprises H, alkyl, hydroxyloweralkyl or alkyl-NX<sub>1</sub>X<sub>2</sub>,

X<sub>4</sub> comprises H or alkyl; or

R4 comprises  $-(CH_2)_n-Z$ ,

n comprises an integer from 0 to about 7,

Z comprises an unsaturated ring having 5 ring atoms and 0 to 4 independently selected heteroatoms as ring members fused to an unsaturated ring having 5 ring atoms and 0 to 4 independently selected

heteroatoms as ring members, an unsaturated ring having 5 ring atoms and 0 to 4 independently selected heteroatoms as ring members fused to an unsaturated ring having 6 or 7 ring atoms and 0 to 5 independently selected heteroatoms as ring members or an unsaturated ring having 6 ring atoms and 0 to 5 independently selected heteroatoms as ring members fused to an unsaturated ring having 6 or 7 ring atoms and 0 to 5 independently selected heteroatoms as ring members; or

R4 comprises  $-\text{CH}_2-\text{Q}-(\text{CH}_2)_n-\text{Z}$ ,

Q comprises N, O, S,  $\text{CH}_3$ ,  $\text{SO}_2$  or  $\text{OSO}_2$ ,

n is an integer from 0 to about 7,

Z comprises H, halogen,  $\text{N}_3$ , NCS, CN,  $\text{NO}_2$ ,  $\text{NX}_1\text{X}_2$ ,  $\text{OX}_3$ , OAc, O-acyl, O-aroyl,  $\text{O}(\text{CH}_2)_d\text{OH}$ ,  $\text{O}(\text{CH}_2)_d\text{NX}_1\text{X}_2$ , NH-acyl, NH-aroyl, CHO,  $\text{CF}_3$ ,  $\text{COOX}_3$ ,  $\text{SO}_3\text{H}$ ,  $\text{SO}_2\text{NX}_1\text{X}_2$ ,  $\text{CONX}_1\text{X}_2$ , alkoxy, alkylmercapto, alkylamino or di-alkylamino,

$\text{X}_1$  and  $\text{X}_2$  each independently comprise H or alkyl, or

$\text{X}_1$  and  $\text{X}_2$  together comprise part of a heterocyclic ring having about 4 to about 7 ring members and optionally a second heteroatom selected from O, N or S, or

$\text{X}_1$  and  $\text{X}_2$  together comprise part of an imide ring having about 5 to about 6 members,

$\text{X}_3$  comprises H, alkyl, hydroxyloweralkyl, or alkyl- $\text{NX}_1\text{X}_2$ ,

d is an integer from 0 to about 6; or

R4 comprises  $-\text{CH}_2-\text{Q}-(\text{CH}_2)_n-\text{Z}$ ,

Q comprises N, O, S,  $\text{CH}_3$ ,  $\text{SO}_2$  or  $\text{OSO}_2$ ,

n is an integer from 0 to about 7,

Z comprises a bicyclic ring, a heterobicyclic ring, a tricyclic ring, a heterotricyclic ring, a polycyclic ring or a heteropolycyclic ring; or

R4 comprises  $-\text{CH}_2-\text{Q}-(\text{CH}_2)_n-\text{Z}$ ,

Q comprises N, O, S,  $\text{CH}_3$ ,  $\text{SO}_2$  or  $\text{OSO}_2$ ,

n is an integer from 0 to about 7,

Z comprises a carbocyclic ring having about 4 to about 7 ring members, a heterocyclic ring having about 4 to about 7 ring members, an aromatic ring having about 5 to about 7 ring members, a heteroaromatic ring having about 5 to about 7 ring members; or any above group substituted on at least one available ring atom by an alkyl group; or any above group substituted on at least one available ring nitrogen atom by a benzyl group, a substituted benzyl group, an alkoxybenzyl group, a substituted alkoxybenzyl group, a benzhydryl group or a substituted benzhydryl group; and wherein the connecting point between the  $-(CH_2)_n$ - group and the Z group can be any available ring carbon atom or any available ring nitrogen atom; or

R4 comprises  $-CH_2-Q-(CH_2)_n-Z$ ,

Q comprises N, O, S,  $CH_3$ ,  $SO_2$  or  $OSO_2$ ,

n is an integer from 0 to about 7,

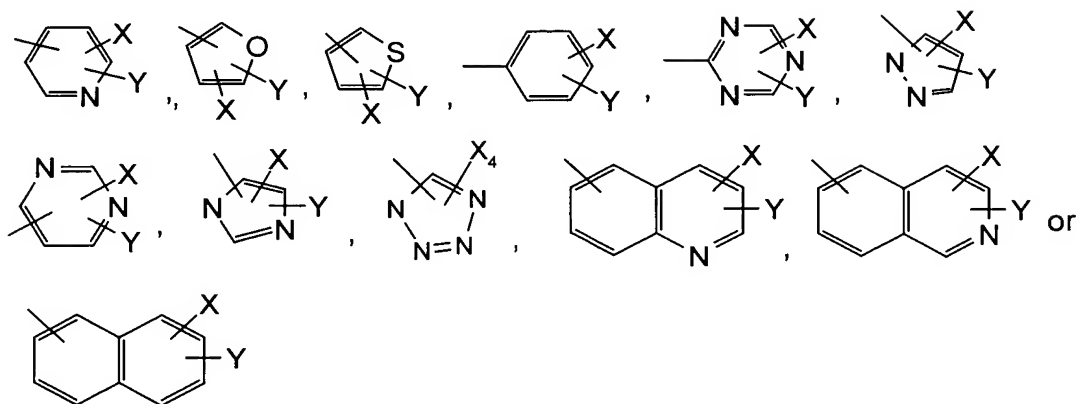
Z comprises 1-, 2- or 3-pyrrolidinyl, 1-, 2-, 3- or 4-piperidinyl, 2-, 3- or 4-morpholinyl, 2-, 3- or 4-thiomorpholinyl, 1-, 2- or 3-azetidiny, 1- or 2-piperazinyl, 2- or 3-tetrahydrofuranyl; or any above group substituted on at least one available ring atom by an alkyl group; or any above group substituted on at least one available ring nitrogen atom by a benzyl group, a substituted benzyl group, an alkoxybenzyl group, a substituted alkoxybenzyl group, a benzhydryl group or a substituted benzhydryl group; and wherein the connecting point between the  $-(CH_2)_n$ - group and the Z group can be any available ring carbon atom or any available ring nitrogen atom; or

R4 comprises  $-\text{CH}_2-\text{Q}-(\text{CH}_2)_n-\text{Z}$ ,

Q comprises N, O, S,  $\text{CH}_3$ ,  $\text{SO}_2$  or  $\text{OSO}_2$ ,

n is an integer from 0 to about 7,

Z comprises



wherein X and Y each independently comprise H, halogen,  $\text{N}_3$ ,  $\text{NCS}$ ,  $\text{CN}$ ,  $\text{NO}_2$ ,  $\text{NX}_1\text{X}_2$ ,  $\text{OX}_3$ ,  $\text{OAc}$ , O-acyl, O-aryl, NH-acyl, NH-aryl, alcohol,  $\text{CHO}$ ,  $\text{CF}_3$ , alcohol,  $\text{COOX}_3$ ,  $\text{SO}_3\text{H}$ ,  $\text{SO}_2\text{NX}_1\text{X}_2$ ,  $\text{CONX}_1\text{X}_2$ , alkoxy, alkylmercapto, alkylamino, di-alkylamino, alkylsulfinyl, alkylsulfonyl or (when Z comprises a structure having two adjacent carbon atoms) methylene dioxy and  $\text{X}_4$  comprises H or alkyl; or

R4 comprises  $-(\text{CH}_2)_n-\text{Q}-(\text{CH}_2)_n-\text{Z}$ ,

Q comprises N, O, S,  $\text{CH}_3$ ,  $\text{SO}_2$  or  $\text{OSO}_2$ ,

each n independently comprises an integer from 0 to about 7,

Z comprises an unsaturated ring having 5 ring atoms and 0 to 4 independently selected heteroatoms as ring members fused to an unsaturated ring having 5 ring atoms and 0 to 4 independently selected heteroatoms as ring members, an unsaturated ring having 5 ring atoms and 0 to 4 independently selected heteroatoms as ring members fused to an unsaturated ring having 6 or 7 ring atoms and 0 to 5 independently selected heteroatoms as ring members or an unsaturated ring having 6 ring atoms and 0 to 5 independently selected heteroatoms as ring members

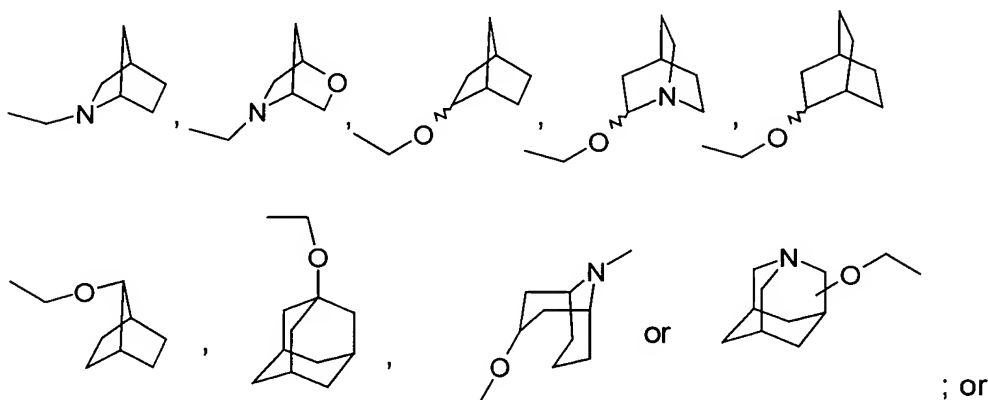
fused to an unsaturated ring having 6 or 7 ring atoms and 0 to 5 independently selected heteroatoms as ring members; or

R4 comprises  $-\text{CH}_2-\text{Q}-(\text{CH}_2)_n-\text{Z}$ ,

Q comprises N, O, S,  $\text{CH}_3$ ,  $\text{SO}_2$  or  $\text{OSO}_2$ ,

n is an integer from 0 to about 7,

Z comprises



R4 comprises  $-\text{T}-(\text{CH}_2)_n-\text{Z}$ ,

n comprises an integer from 0 to about 7,

T comprises a carbocyclic ring having 3 to about 8 ring members, an unsaturated ring having 3 to about 8 carbon atoms as ring members, a heterocyclic ring having 3 to about 8 ring members, a heteroaromatic ring having 5 to about 8 ring members, a bicyclic ring, a heterobicyclic ring, a tricyclic ring, a heterotricyclic ring, a polycyclic ring or a heteropolycyclic ring,

Z comprises H, halogen,  $\text{N}_3$ , NCS, CN,  $\text{NO}_2$ ,  $\text{NX}_1\text{X}_2$ ,  $\text{OX}_3$ , OAc, O-acyl, O-aroyl,  $\text{O}(\text{CH}_2)_d\text{OH}$ ,  $\text{O}(\text{CH}_2)_d\text{NX}_1\text{X}_2$ , NH-acyl, NH-aroyl, CHO,  $\text{CF}_3$ ,  $\text{COOX}_3$ ,  $\text{SO}_3\text{H}$ ,  $\text{SO}_2\text{NX}_1\text{X}_2$ ,  $\text{CONX}_1\text{X}_2$ , alkoxy, alkylmercapto, alkylamino, di-alkylamino alkylsulfinyl or alkylsulfonyl,

$\text{X}_1$  and  $\text{X}_2$  each independently comprise H or alkyl, or

$\text{X}_1$  and  $\text{X}_2$  together comprise part of a heterocyclic ring having about 4 to about 7 ring members and optionally a second heteroatom selected from O, N or S, or

$X_1$  and  $X_2$  together comprise part of an imide ring having about 5 to about 6 members,

$X_3$  comprises H, alkyl, hydroxyloweralkyl or alkyl- $NX_1X_2$ ,

$d$  is an integer from 0 to about 6; or

R4 comprises  $-T-(CH_2)_n-Z$ ,

$n$  comprises an integer from 0 to about 7,

$T$  comprises a carbocyclic ring having 3 to about 8 ring members, an unsaturated ring having 3 to about 8 carbon atoms as ring members, a heterocyclic ring having 3 to about 8 ring members, a heteroaromatic ring having 5 to about 8 ring members, a bicyclic ring, a heterobicyclic ring, a tricyclic ring, a heterotricyclic ring, a polycyclic ring or a heteropolycyclic ring,

$Z$  comprises a carbocyclic ring having about 4 to about 7 ring members, a heterocyclic ring having about 4 to about 7 ring members, an aromatic ring having about 5 to about 7 ring members, a heteroaromatic ring having about 5 to about 7 ring members, a bicyclic ring, a heterobicyclic ring, a polycyclic ring, a heteropolycyclic ring; or any above group substituted on at least one available ring atom by an alkyl group; or any above group substituted on at least one available ring nitrogen atom by a benzyl group, a substituted benzyl group, an alkoxybenzyl group, a substituted alkoxybenzyl group, a benzhydryl group or a substituted benzhydryl group; and wherein the connecting point between the  $-(CH_2)_n$ -group and the  $Z$  group can be any available ring carbon atom or any available ring nitrogen atom; or

R4 comprises  $-T-(CH_2)_n-Z$ ,

$n$  comprises an integer from 0 to about 7,

$T$  comprises a carbocyclic ring having 3 to about 8 ring members, an unsaturated ring having 3 to about 8 carbon atoms as ring members, a heterocyclic ring having 3 to about 8 ring members, a heteroaromatic ring having 5 to about 8 ring members, a bicyclic ring, a heterobicyclic ring, a



tricyclic ring, a heterotricyclic ring, a polycyclic ring or a heteropolycyclic ring,

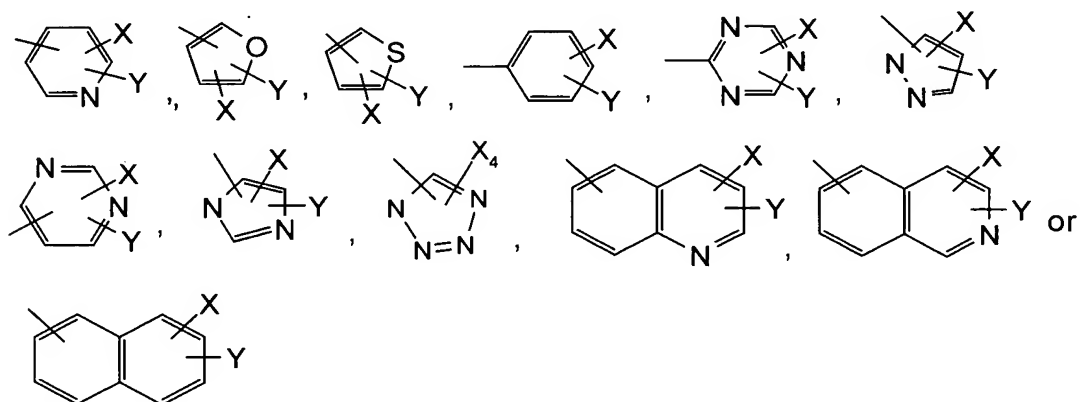
Z comprises 1-, 2- or 3-pyrrolidinyl, 1-, 2-, 3- or 4-piperidinyl, 2-, 3- or 4-morpholinyl, 2-, 3- or 4-thiomorpholinyl, 1-, 2- or 3-azetidiny, 1- or 2-piperazinyl, 2- or 3-tetrahydrofuranyl; or any above group substituted on at least one available ring atom by an alkyl group; or any above group substituted on at least one available ring nitrogen atom by a benzyl group, a substituted benzyl group, an alkoxybenzyl group, a substituted alkoxybenzyl group, a benzhydryl group or a substituted benzhydryl group; and wherein the connecting point between the  $-(CH_2)_n-$  group and the Z group can be any available ring carbon atom or any available ring nitrogen atom; or

R4 comprises  $-T-(CH_2)_n-Z$ ,

n comprises an integer from 0 to about 7,

T comprises a carbocyclic ring having 3 to about 8 ring members, an unsaturated ring having 3 to about 8 carbon atoms as ring members, a heterocyclic ring having 3 to about 8 ring members, a heteroaromatic ring having 5 to about 8 ring members, a bicyclic ring, a heterobicyclic ring, a tricyclic ring, a heterotricyclic ring, a polycyclic ring or a heteropolycyclic ring,

Z comprises



wherein X and Y each independently comprise H, halogen,  $N_3$ , NCS, CN,  $NO_2$ ,  $NX_1X_2$ ,  $OX_3$ , OAc, O-acyl, O-aroyl, NH-acyl, NH-

aroyl, alcohol, CHO, CF<sub>3</sub>, COOX<sub>3</sub>, SO<sub>3</sub>H, SO<sub>2</sub>NX<sub>1</sub>X<sub>2</sub>, CONX<sub>1</sub>X<sub>2</sub>, alkoxy, alkylmercapto, alkylamino, di-alkylamino, alkylsulfinyl, alkylsulfonyl or (when Z comprises a structure having two adjacent carbon atoms) methylene dioxy,

X<sub>1</sub> and X<sub>2</sub> each independently comprise H or alkyl, or

X<sub>1</sub> and X<sub>2</sub> together comprise part of a heterocyclic ring having about 4 to about 7 ring members and optionally a second heteroatom selected from O, N or S, or

X<sub>1</sub> and X<sub>2</sub> together comprise part of an imide ring having about 5 to about 6 members,

X<sub>3</sub> comprises H, alkyl, hydroxyloweralkyl or alkyl-NX<sub>1</sub>X<sub>2</sub>,

X<sub>4</sub> comprises H or alkyl; or

R<sub>4</sub> comprises -T-(CH<sub>2</sub>)<sub>n</sub>-Z,

n comprises an integer from 0 to about 7,

T comprises a carbocyclic ring having 3 to about 8 ring members, an unsaturated ring having 3 to about 8 carbon atoms as ring members, a heterocyclic ring having 3 to about 8 ring members, a heteroaromatic ring having 5 to about 8 ring members, a bicyclic ring, a heterobicyclic ring, a tricyclic ring, a heterotricyclic ring, a polycyclic ring or a heteropolycyclic ring,

Z comprises an unsaturated ring having 5 ring atoms and 0 to 2 independently selected heteroatoms as ring members fused to an unsaturated ring having 5 ring atoms and 0 to 4 independently selected heteroatoms as ring members, an unsaturated ring having 5 ring atoms and 0 to 4 independently selected heteroatoms as ring members fused to an unsaturated ring having 6 or 7 ring atoms and 0 to 5 independently selected heteroatoms as ring members or an unsaturated ring having 6 ring atoms and 0 to 5 independently selected heteroatoms as ring members fused to an unsaturated ring having 6 or 7 ring atoms and 0 to 5 independently selected heteroatoms as ring members; or

R4 comprises  $-\text{Ph}-(\text{CH}_2)_n-\text{Z}$ ,

n comprises an integer from 0 to about 7,

Z comprises H, halogen,  $\text{N}_3$ , NCS, CN,  $\text{NO}_2$ ,  $\text{NX}_1\text{X}_2$ ,  $\text{OX}_3$ , OAc, O-acyl, O-aroyl,  $\text{O}(\text{CH}_2)_d\text{OH}$ ,  $\text{O}(\text{CH}_2)_d\text{NX}_1\text{X}_2$ , NH-acyl, NH-aroyl, CHO,  $\text{CF}_3$ ,  $\text{COOX}_3$ ,  $\text{SO}_3\text{H}$ ,  $\text{SO}_2\text{NX}_1\text{X}_2$ ,  $\text{CONX}_1\text{X}_2$ , alkoxy, alkylmercapto, alkylamino or di-alkylamino,

$\text{X}_1$  and  $\text{X}_2$  each independently comprise H or alkyl, or

$\text{X}_1$  and  $\text{X}_2$  together comprise part of a heterocyclic ring having about 4 to about 7 ring members and optionally heteroatom selected from O, N or S, or

$\text{X}_1$  and  $\text{X}_2$  together comprise part of an imide ring having about 5 to about 6 members,

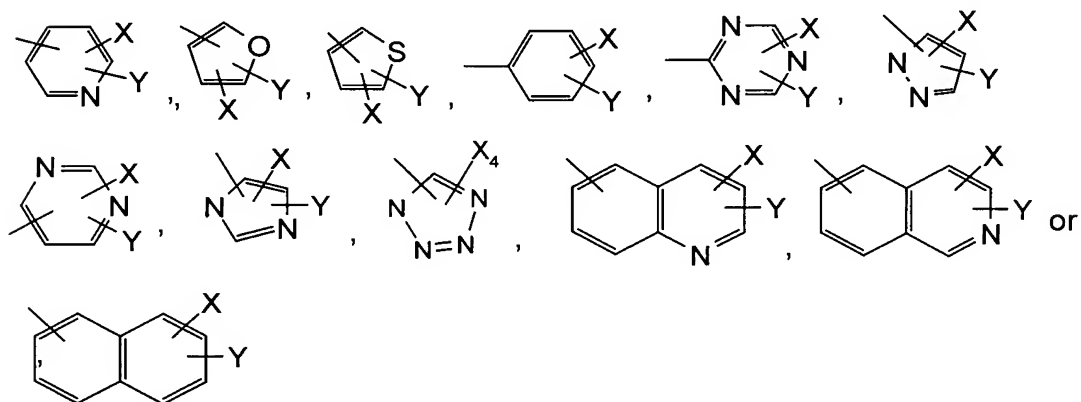
$\text{X}_3$  comprises H, alkyl, hydroxyloweralkyl or alkyl- $\text{NX}_1\text{X}_2$ ,

d is an integer from 0 to about 6; or

R4 comprises  $-\text{Ph}-(\text{CH}_2)_n-\text{Z}$ ,

n comprises an integer from 0 to about 7,

Z comprises



wherein X and Y each independently comprise H, halogen,  $\text{N}_3$ , NCS, CN,  $\text{NO}_2$ ,  $\text{NX}_1\text{X}_2$ ,  $\text{OX}_3$ , OAc, O-acyl, O-aroyl, NH-acyl, NH-aroyl, CHO,  $\text{CF}_3$ , alcohol,  $\text{COOX}_3$ ,  $\text{SO}_3\text{H}$ ,  $\text{SO}_2\text{NX}_1\text{X}_2$ ,  $\text{CONX}_1\text{X}_2$ , alkoxy, alkylmercapto, alkylamino, di-alkylamino, alkylsulfinyl, lower-

alkylsulfonyl or (when Z comprises a structure having two adjacent carbon atoms) methylene dioxy,

$X_1$  and  $X_2$  each independently comprise H or alkyl, or

$X_1$  and  $X_2$  together comprise part of a heterocyclic ring having about 4 to about 7 ring members and optionally a second heteroatom selected from O, N or S, or

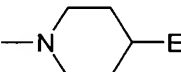

$X_1$  and  $X_2$  together comprise part of an imide ring having about 5 to about 6 members,

$X_3$  comprises H, alkyl, hydroxyloweralkyl or alkyl- $NX_1X_2$ ,

$X_4$  comprises H or alkyl; or

R4 comprises  $-\text{Ph}-(\text{CH}_2)_n-\text{Z}$ ,

n comprises an integer from 0 to about 7,

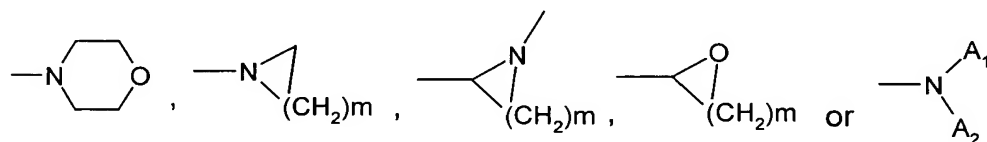
Z comprises  or 

E comprises a C1 to about C4, linear or branched alkyl group, a phenyl group, a substituted phenyl group, a benzyl group or a substituted benzyl group; or

In a variation of the invention R4 comprises  $-\text{Ph}-(\text{CH}_2)_n-\text{Z}$ ,

n comprises an integer from 0 to about 7,

Z comprises



m is an integer from 1 to about 5,

$A_1$  and  $A_2$  each independently comprise a C1 to about C4 alkyl group, a phenyl group or a substituted phenyl group; and

R5 is present only when B is N and if present comprises H, alkyl or substituted alkyl;

with the provisos that:

when A is a direct bond and B is N then R1 cannot be H;

when A is not a direct bond and B is N then R3 cannot be H or a C1-C3 alkyl;

when A is a direct bond and B is N and R1 is a 6 member aromatic ring having 0 to 3 substituents independently selected from halogen, fluoromethyl and trifluoromethyl then R4 cannot be a 6 member aromatic ring having 0 to 3 substituents independently selected from halogen, fluoromethyl and trifluoromethyl;

when A is a direct bond and B is N and R5 is hydrogen and R2 has a nitrogen directly connected to the nitrogen of the amide at the 3-position of pyrazole ring, then R4 can not be a phenyl ring or a phenyl ring having one to three substitutions selected from halogen, trifluoromethyl, 1-pyrrolidinyl, 1-piperidinyl, 4-morpholinyl, 1-piperazinyl, lower-alkyl substituted 1-pyrrolidinyl, lower-alkyl substituted 1-piperidinyl, lower-alkyl substituted 4-morpholinyl, and lower-alkyl substituted 1-piperazinyl.

2. The compound of claim 1, and physiologically acceptable salts thereof, wherein R4 comprises  $-(CH_2)_n-Z$ ,

n comprises an integer from 0 to about 7,

Z comprises an unsaturated ring having 5 ring atoms and 0 to 4 independently selected heteroatoms as ring members fused to an unsaturated ring having 5 ring atoms and 0 to 4 independently selected heteroatoms as ring members, an unsaturated ring having 5 ring atoms and 0 to 4 independently selected heteroatoms as ring members fused to an unsaturated ring having 6 or 7 ring atoms and 0 to 5 independently selected heteroatoms as ring members or an unsaturated ring having 6 ring atoms and 0 to 5 independently selected heteroatoms as ring members fused to an unsaturated ring having 6 or 7 ring atoms and 0 to 5 independently selected heteroatoms as ring members.

3. The compound of claim 1, and physiologically acceptable salts thereof, wherein R4 comprises  $-(CH_2)_n-Z$ ,

n comprises an integer from 0 to about 7,

Z comprises an unsaturated ring having 5 to 6 ring atoms and 0 to 5 independently selected heteroatoms as ring members fused to an unsaturated ring having 5 to 6 ring atoms and 0 to 5 independently selected heteroatoms as ring members.

4. The compound of claim 1, and physiologically acceptable salts thereof, wherein R4 comprises  $-T-(CH_2)_n-Z$ ,

n comprises an integer from 0 to about 7,

T comprises a carbocyclic ring having 3 to about 8 ring members, an unsaturated ring having 3 to about 8 carbon atoms as ring members, a heterocyclic ring having 3 to about 8 ring members, a heteroaromatic ring having 5 to about 8 ring members, a bicyclic ring, a heterobicyclic ring, a tricyclic ring, a heterotricyclic ring, a polycyclic ring or a heteropolycyclic ring,

Z comprises an unsaturated ring having 5 ring atoms and 0 to 2 independently selected heteroatoms as ring members fused to an unsaturated ring having 5 ring atoms and 0 to 4 independently selected heteroatoms as ring members, an unsaturated ring having 5 ring atoms and 0 to 4 independently selected heteroatoms as ring members fused to an unsaturated ring having 6 or 7 ring atoms and 0 to 5 independently selected heteroatoms as ring members or an unsaturated ring having 6 ring atoms and 0 to 5 independently selected heteroatoms as ring members fused to an unsaturated ring having 6 or 7 ring atoms and 0 to 5 independently selected heteroatoms as ring members.

5. The compound of claim 1, and physiologically acceptable salts thereof, wherein R4 comprises a phenyl ring linked to a terminal unsaturated ring having 5 ring members and 4 nitrogen atoms as ring members.

6. The compound of claim 1, and physiologically acceptable salts thereof, comprising one of structures 1-1, 1-2, 1-3, 1-4, 1-5, 1-6, 1-7, 1-9, 1-10, 1-11, 1-13, 1-14, 1-15, 1-16, 1-17, 1-18, 1-19, 1-20, 1-21, 1-22, 1-23, 1-24, 1-25, 1-26, 1-27, 1-28, 1-29, 2-1, 2-2, 2-3, 2-4, 2-5, 2-6, 2-7, 2-8, 2-9, 2-10, 2-11, 2-12, 2-13, 2-14, 2-15, 2-16, 2-17, 2-18, 2-19, 2-20, 2-21, 2-22, 3-1, 3-2, 3-3, 3-4, 3-5, 3-6, 3-7, 3-9, 3-12, 3-13, 3-14, 3-15, 3-16, 3-17, 3-18, 3-19, 3-20, 3-21, 3-22, 3-23, 3-24 or 3-25.

7. The compound of claim 1, and physiologically acceptable salts thereof, comprising one of structures 1-1, 1-2, 1-3, 1-4, 1-5 or 1-6.

8. The compound of claim 1, and physiologically acceptable salts thereof, comprising one of structures 2-1, 2-2, 2-3, 2-4, 2-5, 2-6, 2-7, 2-8, 2-9, 2-10, 2-11, 2-12, 2-13, 2-14, 2-15, 2-16, 2-17, 2-18, 2-19, 2-20, 2-21 or 2-22.

9. The compound of claim 1, and physiologically acceptable salts thereof, comprising one of structures 3-1, 3-2, 3-4, 3-5, 3-6, 3-19, 3-20 or 3-21.

10. The compound of claim 1 wherein wherein A comprises NH and B comprises N.

11. The compound of claim 1 wherein:

A is a direct bond;

B is N;

R1 comprises a phenyl ring substituted with 0 to 3 halogen atoms;

R2 comprises piperidine; and

R4 comprises  $-T-(CH_2)_n-Z$ ,

n comprises an integer from 0 to about 7,

T comprises a carbocyclic ring having 3 to about 8 ring members, an unsaturated ring having 3 to about 8 carbon atoms as ring members, a heterocyclic ring having 3 to about 8 ring members, a heteroaromatic ring having 5 to about 8 ring members, a bicyclic ring, a heterobicyclic ring, a tricyclic ring, a heterotricyclic ring, a polycyclic ring or a heteropolycyclic ring,

Z comprises a carbocyclic ring having about 4 to about 7 ring members, a heterocyclic ring having about 4 to about 7 ring members, an aromatic ring having about 5 to about 7 ring members, a heteroaromatic ring having about 5 to about 7 ring members, a bicyclic ring, a heterobicyclic ring, a polycyclic ring, a heteropolycyclic ring; or any above group substituted on at least one available ring atom by an alkyl group; or any above group substituted on at least one available ring nitrogen atom by a benzyl group, a substituted benzyl group, an alkoxybenzyl group, a substituted alkoxybenzyl group, a benzhydryl group or a substituted benzhydryl group; and wherein the connecting point between the  $-(CH_2)_n-$  group and the Z group can be any available ring carbon atom or any available ring nitrogen atom.

12. The compound of claim 1 wherein:

A is a direct bond;

B is N;

R1 comprises a phenyl ring substituted with 0 to 3 halogen atoms;

R2 comprises piperidine; and

R4 comprises  $-T-(CH_2)_n-Z$ ,

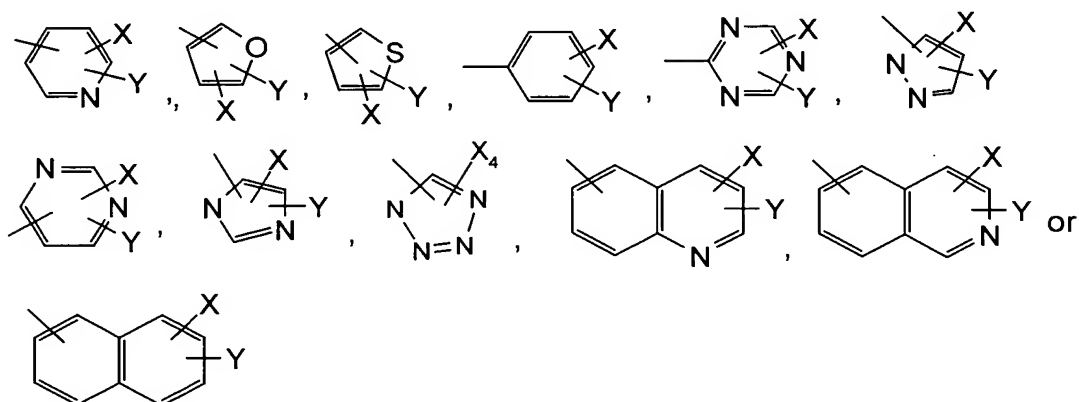
n comprises an integer from 0 to about 7,

T comprises a carbocyclic ring having 3 to about 8 ring members, an unsaturated ring having 3 to about 8 carbon atoms as ring members, a



heterocyclic ring having 3 to about 8 ring members, a heteroaromatic ring having 5 to about 8 ring members, a bicyclic ring, a heterobicyclic ring, a tricyclic ring, a heterotricyclic ring, a polycyclic ring or a heteropolycyclic ring,

Z comprises



wherein X and Y each independently comprise H, halogen, N<sub>3</sub>, NCS, CN, NO<sub>2</sub>, NX<sub>1</sub>X<sub>2</sub>, OX<sub>3</sub>, OAc, O-acyl, O-aroyl, NH-acyl, NH-aroyl, alcohol, CHO, CF<sub>3</sub>, COOX<sub>3</sub>, SO<sub>3</sub>H, SO<sub>2</sub>NX<sub>1</sub>X<sub>2</sub>, CONX<sub>1</sub>X<sub>2</sub>, alkoxy, alkylmercapto, alkylamino, di-alkylamino, alkylsulfinyl, alkylsulfonyl or (when Z comprises a structure having two adjacent carbon atoms) methylene dioxy,

X<sub>1</sub> and X<sub>2</sub> each independently comprise H or alkyl, or

X<sub>1</sub> and X<sub>2</sub> together comprise part of a heterocyclic ring having about 4 to about 7 ring members and optionally a second heteroatom selected from O, N or S, or

X<sub>1</sub> and X<sub>2</sub> together comprise part of an imide ring having about 5 to about 6 members,

X<sub>3</sub> comprises H, alkyl, hydroxyloweralkyl or alkyl-NX<sub>1</sub>X<sub>2</sub>,

X<sub>4</sub> comprises H or alkyl.

13. A pharmaceutical composition for an individual or animal comprising a therapeutically effective amount of at least one compound of claim 1 or a physiologically acceptable salt thereof.

14. The pharmaceutical composition of claim 13 wherein the compound of claim 1 comprises one of structures 1-1, 1-2, 1-3, 1-4, 1-5, 1-6, 1-7, 1-9, 1-10, 1-11, 1-13, 1-14, 1-15, 1-16, 1-17, 1-18, 1-19, 1-20, 1-21, 1-22, 1-23, 1-24, 1-25, 1-26, 1-27, 1-28, 1-29, 2-1, 2-2, 2-3, 2-4, 2-5, 2-6, 2-7, 2-8, 2-9, 2-10, 2-11, 2-12, 2-13, 2-14, 2-15, 2-16, 2-17, 2-18, 2-19, 2-20, 2-21, 2-22, 3-1, 3-2, 3-3, 3-4, 3-5, 3-6, 3-7, 3-9, 3-12, 3-13, 3-14, 3-15, 3-16, 3-17, 3-18, 3-19, 3-20, 3-21, 3-22, 3-23, 3-24 or 3-25.

15. A method of stimulating at least some cannabinoid receptors in an individual or animal comprising administering to the individual or animal a therapeutically effective amount of the compound of claim 1 or a physiologically acceptable salt thereof.

16. The method of claim 15 wherein the compound of claim 1 comprises one of structures 1-1, 1-2, 1-3, 1-4, 1-5, 1-6, 1-7, 1-9, 1-10, 1-11, 1-13, 1-14, 1-15, 1-16, 1-17, 1-18, 1-19, 1-20, 1-21, 1-22, 1-23, 1-24, 1-25, 1-26, 1-27, 1-28, 1-29, 2-1, 2-2, 2-3, 2-4, 2-5, 2-6, 2-7, 2-8, 2-9, 2-10, 2-11, 2-12, 2-13, 2-14, 2-15, 2-16, 2-17, 2-18, 2-19, 2-20, 2-21, 2-22, 3-1, 3-2, 3-3, 3-4, 3-5, 3-6, 3-7, 3-9, 3-12, 3-13, 3-14, 3-15, 3-16, 3-17, 3-18, 3-19, 3-20, 3-21, 3-22, 3-23, 3-24 or 3-25.

17. A method of selectively stimulating at least some CB1 cannabinoid receptors in an individual or animal comprising administering to the individual or animal a therapeutically effective amount of the compound of claim 1 or a physiologically acceptable salt thereof.

18. The method of claim 17 wherein the compound of claim 1 comprises one of structures 1-1, 1-2, 1-3, 1-4, 1-5, 1-6, 1-7, 1-9, 1-10, 1-11, 1-13, 1-14, 1-15, 1-16, 1-17, 1-18, 1-19, 1-20, 1-21, 1-22, 1-23, 1-24, 1-25, 1-26, 1-27, 1-28, 1-29, 2-1, 2-2, 2-3, 2-4, 2-5, 2-6, 2-7, 2-8, 2-9, 2-10, 2-11, 2-12, 2-13, 2-14, 2-15, 2-16, 2-17, 2-18, 2-19, 2-20, 2-21, 2-22, 3-1, 3-2, 3-3, 3-4, 3-5, 3-6, 3-7, 3-9, 3-12, 3-13, 3-14, 3-15, 3-16, 3-17, 3-18, 3-19, 3-20, 3-21, 3-22, 3-23, 3-24 or 3-25.

19. A method for the treatment of a disease in an animal or individual having that disease comprising administering to an individual or animal in need of such treatment a therapeutically effective amount of the compound of claim 1 or a physiologically acceptable salt thereof.

20. The method of claim 19 wherein the compound of claim 1 comprises one of structures 1-1, 1-2, 1-3, 1-4, 1-5, 1-6, 1-7, 1-9, 1-10, 1-11, 1-13, 1-14, 1-15, 1-16, 1-17, 1-18, 1-19, 1-20, 1-21, 1-22, 1-23, 1-24, 1-25, 1-26, 1-27, 1-28, 1-29, 2-1, 2-2, 2-3, 2-4, 2-5, 2-6, 2-7, 2-8, 2-9, 2-10, 2-11, 2-12, 2-13, 2-14, 2-15, 2-16, 2-17, 2-18, 2-19, 2-20, 2-21, 2-22, 3-1, 3-2, 3-3, 3-4, 3-5, 3-6, 3-7, 3-9, 3-12, 3-13, 3-14, 3-15, 3-16, 3-17, 3-18, 3-19, 3-20, 3-21, 3-22, 3-23, 3-24 or 3-25.